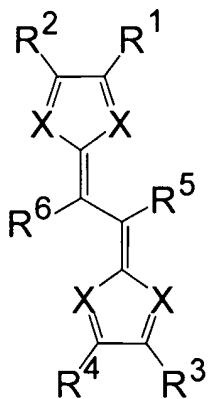
AMENDMENTS TO THE CLAIMS:

*Please amend the claims as follows:*

1-19. (Cancelled)

20. (Withdrawn) An electrode active material for an electrochemical device, comprising a compound having a structure represented by the general formula (1b):



where X is a nitrogen atom; each of R<sup>1</sup> to R<sup>4</sup> is independently a linear or cyclic aliphatic group, a hydrogen atom, a hydroxyl group, a cyano group, an amino group, a nitro group or a nitroso group; each of R<sup>5</sup> and R<sup>6</sup> is independently a linear or cyclic aliphatic group, or a hydrogen atom; said aliphatic group includes at least one selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom, a silicon atom, a phosphorus atom, a boron atom, and a halogen atom.

21. (Cancelled)

22. (Currently amended) The ~~electrode active material secondary battery~~ in accordance with claim [[19]] 32, wherein said compound is a polymer compound having more than one structure represented by the general formula (1a).

23. (Withdrawn) The electrode active material in accordance with claim 20, wherein said compound is a polymer compound having more than one structure represented by the general formula (1b).

24. (Currently amended) The ~~electrode active material~~ secondary battery in accordance with claim [[21]] 34, wherein said compound is a polymer compound having more than one structure represented by the general formula (2).

25. (Currently amended) The ~~electrode active material~~ secondary battery in accordance with claim 22, wherein said polymer compound has a polyacetylene chain or a polymethacrylate chain as a main chain.

26. (Withdrawn) The electrochemical device in accordance with claim 23, wherein said polymer compound has a polyacetylene chain or a polymethacrylate chain as a main chain.

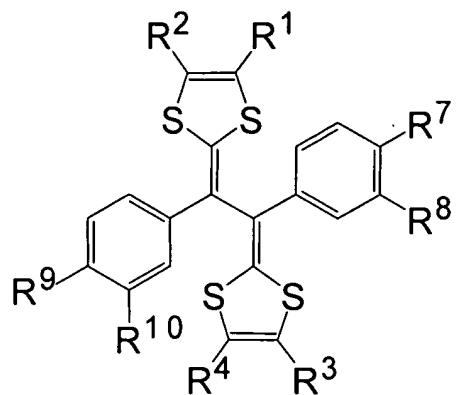
27. (Currently amended) The ~~electrode active material~~ secondary battery in accordance with claim 24, wherein said polymer compound has a polyacetylene chain or a polymethacrylate chain as a main chain.

28. (Currently amended) The ~~electrode active material~~ secondary battery in accordance with claim [[19]] 32, wherein the number of carbon atoms in the aliphatic group is in the range of 1 to 6.

29. (Withdrawn) The electrochemical device in accordance with claim 20, wherein the number of carbon atoms in the aliphatic group is in the range of 1 to 6.

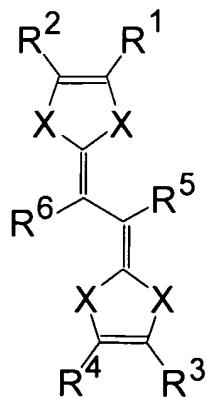
30. (Currently amended) The ~~electrode active material~~ secondary battery in accordance with claim [[21]] 34, wherein the number of carbon atoms in the aliphatic group is in the range of 1 to 6.

31. (Withdrawn) An electrode active material for an electrochemical device, comprising a compound having a structure represented by the general formula (2):



where each of R<sup>1</sup> to R<sup>4</sup> is hydrogen atom; one of R<sup>7</sup> and R<sup>8</sup> is a hydrogen atom and the other is a methyl group; and one of R<sup>9</sup> and R<sup>10</sup> is a hydrogen atom and the other is a methyl group.

32. (Currently amended) An electrochemical device A secondary battery, comprising a positive electrode, a negative electrode and an electrolyte, wherein at least one of said positive electrode and said negative electrode includes an electrode active material ~~in accordance with claim 19~~ comprising a compound having a structure represented by the general formula (1a):



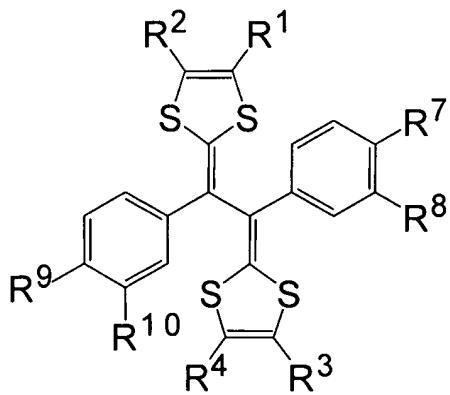
where X is a sulfur atom or an oxygen atom; each of R<sup>1</sup> to R<sup>4</sup> is independently a linear or cyclic aliphatic group, a hydrogen atom, a hydroxyl group, a cyano group, an

amino group, a nitro group or a nitroso group; each of R<sup>5</sup> and R<sup>6</sup> is independently a linear or cyclic aliphatic group, or a hydrogen atom; said aliphatic group includes at least one selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom, a silicon atom, a phosphorus atom, a boron atom, and a halogen atom.

33. (Withdrawn) An electrochemical device, comprising a positive electrode, a negative electrode and an electrolyte,

wherein at least one of said positive electrode and said negative electrode includes an electrode active material in accordance with claim 20.

34. (Currently amended) An electrochemical device A secondary battery, comprising a positive electrode, a negative electrode and an electrolyte, wherein at least one of said positive electrode and said negative electrode includes an electrode active material ~~in accordance with claim 21~~ comprising a compound having a structure represented by the general formula (2):



where each of R<sup>1</sup> to R<sup>4</sup> and R<sup>7</sup> to R<sup>10</sup> is independently a linear or cyclic aliphatic group, a hydrogen atom, a hydroxyl group, a cyano group, an amino group, a nitro group or a nitroso group; said aliphatic group includes at least one selected from the group consisting of an oxygen atom, a nitrogen atom, a sulfur atom, a silicon atom, a phosphorus atom, a boron atom and a halogen atom.

35. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 32,

wherein said electrolyte comprises a solvent, and an anion and a cation that diffuse in said solvent, and said compound is capable of forming a coordinate bond with said cation through an oxidation-reduction reaction.

36. (Withdrawn) The electrochemical device in accordance with claim 33, wherein said electrolyte comprises a solvent, and an anion and a cation that diffuse in said solvent, and said compound is capable of forming a coordinate bond with said cation through an oxidation-reduction reaction.

37. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 34, wherein said electrolyte comprises a solvent, and an anion and a cation that diffuse in said solvent, and said compound is capable of forming a coordinate bond with said cation through an oxidation-reduction reaction.

38. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 35, wherein said cation is a lithium ion.

39. (Withdrawn) The electrochemical device in accordance with claim 36, wherein said cation is a lithium ion.

40. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 37, wherein said cation is a lithium ion.

41. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 32, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes a carbon material as a negative electrode active material.

42. (Withdrawn) The electrochemical device in accordance with claim 33, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes a carbon material as a negative electrode active material.

43. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 34, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes a carbon material as a negative electrode active material.

44. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 32, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes, as a negative electrode active material, at least one selected from the group consisting of a lithium metal, a lithium-containing composite nitride and a lithium-containing composite titanium oxide.

45. (Withdrawn) The electrochemical device in accordance with claim 33, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes, as a negative electrode active material, at least one selected from the group consisting of a lithium metal, a lithium-containing composite nitride and a lithium-containing composite titanium oxide.

46. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 34, wherein said positive electrode includes said compound as a positive electrode active material, and said negative electrode includes, as a negative electrode active material, at least one selected from the group consisting of a lithium metal, a lithium-containing composite nitride and a lithium-containing composite titanium oxide.

47. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 32, wherein said negative electrode includes said compound as a negative electrode active material, and said positive electrode includes a metal oxide material as a positive electrode material.

48. (Withdrawn) The electrochemical device in accordance with claim 33, wherein said negative electrode includes said compound as a negative electrode active material, and said positive electrode includes a metal oxide material as a positive electrode material.

49. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 34, wherein said negative electrode includes said compound as a negative electrode active material, and said positive electrode includes a metal oxide material as a positive electrode material.

50. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 32, wherein, when said compound is used as an electrode active material, a conductive material is mixed into the electrode active material.

51. (Withdrawn) The electrochemical device in accordance with claim 33, wherein, when said compound is used as an electrode active material, a conductive material is mixed into the electrode active material.

52. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 34, wherein, when said compound is used as an electrode active material, a conductive material is mixed into the electrode active material.

53. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 32, wherein, when said positive electrode includes said compound as a positive electrode active material, one of the following is used as the negative electrode material of said negative electrode: a carbon material, a lithium metal, a lithium-containing composite nitride, a lithium-containing composite titanium oxide, a composite material of tin and carbon, and a composite material of tin and another metal.

54. (Withdrawn) The electrochemical device in accordance with claim 33, wherein, when said positive electrode includes said compound as a positive electrode active material, one of the following is used as the negative electrode material of said negative

electrode: a carbon material, a lithium metal, a lithium-containing composite nitride, a lithium-containing composite titanium oxide, a composite material of tin and carbon, and a composite material of tin and another metal.

55. (Currently amended) The ~~electrochemical device~~ secondary battery in accordance with claim 34, wherein, when said positive electrode includes said compound as a positive electrode active material, one of the following is used as the negative electrode material of said negative electrode: a carbon material, a lithium metal, a lithium-containing composite nitride, a lithium-containing composite titanium oxide, a composite material of tin and carbon, and a composite material of tin and another metal.

56. (Cancelled)

57. (Withdrawn) The electrochemical device in accordance with claim 33, wherein said electrochemical device comprises one of a secondary battery, a primary battery, an electrolytic capacitor, a sensor and an electrochromic device.

58. (Cancelled)